

Probability & Heredity Notes Review

Name: _____ Date: _____

Table: _____ Section: _____

1. Define Genotype & Phenotype.
2. Define Homozygous & Heterozygous.
3. A pea plant with round seeds has the genotype Rr. You cross this plant with a wrinkled-seed plant, genotype rr. What is the probability that the offspring will have wrinkled seeds? (Use a Punnett square to prove your answer.)
4. Explain how two organisms can have the same phenotype but different genotypes. Give an example.
5. Give an example of codominant alleles and explain why they are codominant.

Performance Task: Coin Crosses

Procedure

1. Gather masking tape & two coins.
2. Place a piece of masking tape on each side of two coins.
3. Write a T (for tall plants) on one side of each coin and a t (for short plants) on the other side.
4. Toss both coins together 20 times. Record the letter combination that you obtain from each toss.

Coin Toss	First Coin	Second Coin
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Analyze & Conclude

1. How many of the offspring would be tall plants?
2. How many would be short plants?
3. How does this experiment demonstrate probability?
4. How does this experiment demonstrate Mendel's work on pea plants?